	Application No.	Applicant(s)
All discussion of All social 1994 s	10/723,426	TOLIYAT ET AL.
Notice of Allowability	Examiner	Art Unit
	Robert W. Horn	2837
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT OF THE NOTICE	(OR REMAINS) CLOSED in this a or other appropriate communication GHTS. This application is subject	application. If not included on will be mailed in due course. THIS
1. This communication is responsive to <u>11/2/2005</u> .		
2. The allowed claim(s) is/are 1,6,7 and 9-20.		•
3. \square The drawings filed on <u>02 November 2005</u> are accepted by the second sec	the Examiner.	
4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☒ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMITHIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitined including changes required by the Notice of Draftsperson (a) ☐ including changes required by the Notice of Draftsperson (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.	been received. been received in Application No. cuments have been received in this of this communication to file a repl ENT of this application. Itted. Note the attached EXAMINE is reason(s) why the oath or declar t be submitted. on's Patent Drawing Review (PTO 413. S Amendment / Comment or in the	is national stage application from the ly complying with the requirements ER'S AMENDMENT or NOTICE OF tration is deficient. O-948) attached Office action of
each sheet. Replacement sheet(s) should be labeled as such in the 7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT F	sit of BIOLOGICAL MATERIAL	must be submitted. Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0-Paper No./Mail Date 7/21/2005 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☑ Interview Summa Paper No./Mail D 8), 7. ☑ Examiner's Amen 8. ☑ Examiner's Stater 9. ☐ Other	Date 20051117 Indument Comment of Reasons for Allowance

Response to Amendment

The examiner acknowledges the receipt of amendments dated 11/2/2005. The amendments are proper and clear all outstanding matters.

Regarding the drawings, the submitted replacement drawings overcome the objections to the original drawings and the objections are withdrawn.

The examiner acknowledges the withdrawal of rejected claims 2, 3, 5 and 8.

The examiner acknowledges the amendments to claims 6 and 7. It is determined that there were no rejections under 35 USC § 112 in the first action and the objection to claims being dependent to a rejected base claim was overcome by the inclusion of all the limitations of the base claim and any intervening claims. Claims 6 and 7 are now in condition for allowance.

The examiner discovered grounds for rejecting claim 9, which was found allowable on first action, while prosecuting these amendments. The examiner proposed an examiner's amendment to the attorney, Bradley R. Williams on December 2, 2005.

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Claim 9 (amended) A method for driving a motor, comprising: receiving a voltage input from a power supply;

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boosting the voltage received from the power supply;

energizing windings of the motor by unipolar inverter using the boosted voltage;

storing at least some of the energy not used by the windings to excite the motor;

and

when the windings are not being energized, returning at least some of the energy stored in the windings via energy return diodes to the booster.

Authorization for this examiner's amendment was given in a telephone interview with Bradley R. Williams on December 14, 2005.

Allowable Subject Matter

Claims 16, 7 and 9 (amended) and 10-20 allowed.

The reasoning for allowance of claims 1 and 9-20 is found in the action dated 5/2/2005.

Claim 6 is found allowable for the combination of all the elements and specifically for the coupling of the energy return diodes to the booster energy storage section.

Claim 7 is allowable as dependent on claim 6.

Claim 9 (amended) is found allowable for all items in the list of steps for driving a motor. The distinguishing features include the method steps as amended:

energizing windings of the motor <u>by unipolar inverter</u> using the boosted voltage; when the windings are not being energized, returning at least some of the energy stored in the windings <u>via energy return diodes</u> to the booster.

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The energizing step leaves energy stored in the windings. The not being energized step involves a novel way of returning this unused energy stored in the windings to the booster.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert W. Horn whose telephone number is 571-272-8591. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David S. Martin can be reached on 571-272-2107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

rwh November 17, 2005